

# MEMORANDUM.

UTAH DEPARTMENT OF TRANSPORTATION

DATE: August 12, 2002

**TO :**

Dario Alvarez	Pioneer Oil Co.
Scott Andrus	Region 3 Materials
Tim Biel	Materials Division
Tim Bochnowski	Holcim Cement Co.
Lawrence Buss	Construction Division
John Butterfield	Region 2 Materials
Tom Case	Granite Construction Co.
Stephane Charmot	Koch Asphalt Co.
Bob Crunk	Holcim Cement Co.
Rob Duncan	Ash Grove Cement Company
Troy Dunsmore	QC Testing
Ave Forseth	Pioneer Oil Co.
Larry Gay	Region 4 Materials
Darrell Giannonatti	Construction and Materials Divisions
Craig Haskell	Region 3
Karen Kiggins	Heckett MultiServ
Joe Johnson	Geneva Rock Co.
Hugh Kirkham	Construction Division
Richard Laubsch	FHWA
Bill Lawrence	Materials Division
Mitzi McIntyre	ACPA
Steven Park	Region 2 Materials
Cameron Petersen	Materials Division
Troy Peterson	Materials Division
Murari Pradhan	Materials Division
Greg Punske	FHWA
Mohammad Rahman	GARCO Testing
Tim Rose	Region 2 Construction
Dennis Simper	Region 1 Construction
Brent Sumsion	Western Aggregates, Inc.
Rodney Terry	Region 1 Materials
Rich Thorn	Utah AGC
Bob Tromble	ISSA
Karl Verhaeren	Region 4 Construction
Glenn Waite	Tri-State Testing Lab
Douglas Watson	SLC
Robert Westover	Region 3 Construction
Grant Wiley	Region 3 Materials
Brooke Williams	Holcim Cement Co.
Mont Wilson	Granite Construction Co.
Mike Worischeck	Staker Paving/Parson Co.
Scott Yates	Pioneer Oil Co.

**FROM :** Howard Anderson, P.E.  
Engineer For Pavements

**SUBJECT: Utah Pavement Council**

Date: July 17, 2002  
Location: UDOT Complex, Large Conference Room First Floor  
Address: 4501 South 2700 West  
Salt Lake City, UT 84119  
Time: 1:00 PM to 3:00 PM

The next Utah Pavement Council meeting is scheduled as shown above.

Attendance July 17<sup>th</sup> Meeting:

Rob Duncan, Craig Haskell, Murari Pradhan, Scott Andrus, Grant Wiley, Cameron Petersen, Bill Lawrence, Tim Biel, Joe Johnson, Mont Wilson, Roger Cahoon, Troy Peterson, Stephane Charmot, Mohammad Rahman, Brook Williams, Mike Worischeck, Jim Hulse, and Howard Anderson.

The following ground rules are recommended for our group: 1. Participate by providing your agenda items and reviewing the specifications or procedures and making comments. 2. Bring your reviewed copy of the draft. 3. Come on time and stay and participate as best you can. 4. Stay on task during discussions. 5. Keep personal grips to a minimum. 6. Keep side conversations during breaks only.

Notes from July 17th 2002 Meeting:

1. **We reviewed the Utah Pavement Council list of members** and made the following corrections: Troy Peterson from the UDOT Materials Division was added to the list, Kay Christofferson was deleted as per a request, (no longer works for Geneva Rock Co). Karen Kiggins from Heckett MultiServ was added later to the council as per a phone call request.
2. **Portland Cement Concrete (PCC) Specification - #200 material.** - Mike Worischeck - Continued summary from the last meeting. The discussion is that UDOT limits the minus 200 material to 1.75 percent. This is because of the negative impact of clay materials to the concrete. The comment is this: if the minus 200 material is rock and not clay particles then it should be ok. How do we control the clay content of the minus 200 material? How do we tell the difference between minus 200 rock and minus 200 clay? It was proposed that we allow 1% 200 from the rock stockpile and 5% 200 from the sand stockpile. Values for the sand equivalent test were discussed. Stephane talked about the "Methelene Blue" test. It was mentioned that you almost always wash concrete sand so it would have little clay content. Bill and Mike decided to gather more information for the

next meeting.

3. **Koch presentation: a draft Bounded Wearing Course (“Novachip”) specification to the group - Stephane Charmot.** Stephane presented his draft specification of the Bonded Wearing Course (BWC) to the pavement council. This material has been used in different states such as Colorado and in Utah in St. George. Some good discussion followed on the use of this material. Howard was asked to email a copy of the specification to the group. The committee would bring their comments of the specification to the next pavement council meeting.
4. **Staker/Parson paving company has an APA (Asphalt Pavement Analyzer) available** if someone wants to buy one. - Mike Worischeck. UDOT said they really are not interested in it. Koch said they might be.
5. **02969 - Optional Use fo Reclaimed Asphalt Pavement (PG Grade Projects Only) - Cameron Petersen.** Cameron passed out this specification to the group. The intent of this is not really to change the specification but to make it more clear. In summary, Rap oil is recovered and then added to the neat asphalt to make sure it still meets the specification. Additional discussion followed about the 15% limit that has become a national standard on the use of RAP before a new binder design is required. It was decided a task force would be put together to work on this specification. Names for the group included Cameron, Howard, Murari, Mont and Stephane.
6. **Flat and Elongated Discussion:** We discussed our chip seal specification that has a 5 % maximum flat and elongated limit based on a 3 to 1 ratio. This has come to a front because of the I-80 Echo project in which a chip stockpile has been rejected because of too many flat and elongated particles. This specification was first used in Region 4 and has been used as a special provision since 1995. Our previous standard specification books, the green and red books had no limit specified in the standard chip seal specification but did call for a 20 percent limit on Rounded Particles (UDOT test procedure 8-929). It was discussed we need to know what numbers we have on our chip stock piles that have good performance. Each Region and contractor was encouraged to test their material and bring the results to the next meeting.
7. **Bill mentioned that he will put together a draft specification for Portland Cement Concrete 03055 for the group to look at.** Howard will send it on to the group.
8. **Howard up dated the group on some of our thoughts on the Profilograph.** We will continue to look into this. It was mentioned that some project managers do not call for the smoothness bonus on their projects. We also had some discussion on the use of lime and marination.

9. **Next meeting is scheduled for August 21** at the UDOT Complex, large Conference Room, first floor. We will continue to normally meet on the 3<sup>rd</sup> Wednesday of each month, with our new time of 1:00 PM to 4:00 PM.

**AGENDA**  
**Utah Pavement Council**  
**Wednesday, August 21, 2002**

**1:00 PM UDOT Complex**  
**Large Conference Room, First Floor**  
**4501 South 2700 West**  
**Salt Lake City, UT 84101**

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| 1:00 - 1:10 | 1. <b>Welcome-</b> Howard Anderson   |
| 1:10 - 1:35 | 2. <b>"dog and pony show" on UTW (ultra thin whitetopping).</b><br>Mitzi McIntyre will give a short powerpoint presentation and provide technical bulletins on the subject. Some folks may be unfamiliar with the concept of UTW.<br>Summary:                |
| 1:35 - 2:00 | 3. <b>Bonded Wearing Course (BWC) Novachip Specification</b><br>comments from the group. This specification was emailed to you a few weeks ago.<br>Summary:  |
| 2:00 - 2:25 | 4. <b>PCC Paving Specification - Combined Minus 200 material on Ready Mix Concrete</b> - Mike Worischeck. Follow up discussion from last meeting with more data to look at.<br>Summary:  |
| 2:30 - 2:45 | BREAK  |
| 2:45 - 3:15 | 5. <b>Film Thickness Discussion:</b> - Mohammand Rahman. It seems that UDOT is concerned having mixes put on their roads with low oil content. Why don't we talk about film thidkness on our next meeting? You can add this item to your agenda.<br>Summary: |
| 3:15 - 3:30 | 6. <b>Porland Cement Concrete Specification (03055)</b> - Bill Lawrence: including some minor changes that occurred from the last RME meeting. This was forwarded to the pavement council for review before our meeting.                                     |
| 3:30 - 3:45 | 7. <b>Up date on task force for 02969 - Optional Use of Reclaimed Asphalt Pavement (PG Grade Projects Only)</b> - Murari Pradhan   |

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| 3:45 - 4:00 | 2. | <b>Review of Test Data from Chip stock piles: Flat and Elongated Test - Open discussion</b><br>Summary: |
| 4:00 - 4:15 | 3. | Other items.  |
| 4:30        | 4. | Next meeting date. <b>Wednesday, September 18, 2002.</b>  |